

# LaTeX Guide

Here is the basic outline for writing a nicely formatted LaTeX document. If you do not have Windows, you can skip directly to the syntax section.

1. If you have Windows, download and install TexnicCenter. You will also need to install MikTeX, I believe, as TexnicCenter uses MikTeX.
2. Create a new project by going to File::New::Project
3. Paste this in, and start typing in the location indicated:

```
\documentclass[11pt]{article}
\setlength{\textheight}{205mm}
\setlength{\topmargin}{0cm}
\setlength{\textwidth}{150mm}
\setlength{\oddsidemargin}{0.46cm}
\setlength{\evensidemargin}{0.46cm}
\setlength{\parskip}{1em}
\usepackage{amssymb}
\usepackage{amsthm}
\usepackage{amsmath}
\usepackage{color}
\usepackage[scaled]{helvet}
\renewcommand{\familydefault}{\sfdefault}
\usepackage[T1]{fontenc}
\usepackage[pdftex]{graphicx}
\renewcommand{\baselinestretch}{1.2}
%This is the command that spaces the manuscript for easy reading
\begin{document}
\begin{center}
\Large Your Title Here
\end{center}
Start typing your LaTeX here.
\end{document}
```

## Syntax

*Note: The following commands must be wrapped in a \$\$ tag.*

Texer online LaTeX Editor

<code>x^{number}</code>	$x^{number}$
<code>x_{number}</code>	$x_{number}$
<code>x \times 10^{8}</code>	$x \times 10^8$
<code>\dfrac{numerator}{denominator}</code>	$\frac{numerator}{denominator}$
<code>\sqrt{number}</code>	$\sqrt{number}$
<code>\sum{something}</code>	$\sum something$
<code>\triangle x</code>	$\triangle x$
<code>\ell</code>	$\ell$
<code>\alpha</code>	$\alpha$
<code>\beta</code>	$\beta$
<code>\lambda</code>	$\lambda$
<code>\theta</code>	$\theta$
<code>\omega</code>	$\omega$

## Formatting Syntax

*Note: The following DO NOT need to be wrapped in a \$\$ tag.*

<code>\\</code>	Creates new line
Press enter twice	Creates two lines; starts paragraph
<code>\bigskip</code>	Skips down more than normal
<code>\:</code>	Space
<code>\indent</code>	Inserts Indent
<code>\noindent</code>	Removes Indent